Arboricity

Minimal number of forests required to cover $G$
Arboricity - Definitions

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Large Family of Graphs

- Bounded Degree Graphs
- Randomly Generated Preferential Attachment Graphs
- Minor Closed Graphs
  - Planar Graphs
  - Graphs with Bounded Tree-Width
- Bounded Genus Graphs
Many Applications

- Faster algorithms
- Better approximation ratios
- NP-Hard \(\Rightarrow\) Fixed parameter tractable
Tolerantly Testing

- $\epsilon$-close vs. $3\epsilon$-far
Thanks! (: